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PATENT  
P56945 (CIP)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SOO-HWAN KIM, *et al.*

Serial No.: 10/657,261

Examiner: *To be assigned*

Filed: 9 September 2003

Art Unit: 2617

For: METHOD AND SYSTEM FOR MATCHING SUBSCRIBER STATES IN  
NETWORK IN WHICH PUBLIC LAND MOBILE NETWORK AND  
WIRED/WIRELESS PRIVATE NETWORK ARE INTERWORKED

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

**FOREIGN PATENT REFERENCE:**

- Japanese Patent Publication No. 2001-7764 to Feder, *et al.*, entitled *TRANSMISSION METHOD VIA WIRELESS LINK*, published on 12 January 2001 (with English abstract).
- Japanese Patent Publication No. 10-94038 to Wada, *et al.*, entitled *MUTUAL CONNECTION DEVICE*, published on 10 April 1998 (with English abstract).
- Japanese Patent Publication No. 2001-285477 to Ikeda, *et al.*, entitled *QUASI*

*PUBLIC SYSTEM FOR MOBILE COMMUNICATION*, published on 12 October 2001 (with English abstract).

- Japanese Patent Publication No. 11-275656 to Hano, entitled *PRIVATE CORDLESS TELEPHONE CONNECTION SYSTEM*, published on 8 October 1999 (with English abstract).

#### **OTHER DOCUMENTS:**

- Japanese Office Action corresponding to Japanese Patent Application No. 2003-319922, issued on 28 November 2006.

#### **DISCUSSION**

According to the Japanese Office Action, **Feder, et al., JP'764**, states that a wireless unit 12 is connected to a wireless network 18 by using a wireless MODEM(WM). The WM transmits a radio packet and detects ACK (affirmation response) from an access point(AP) 24. A power control system is constituted in the wireless unit 12. The power control system decides a packet loss rate(PLR) as the number of lost ACK/the number of expected ACK for the WM. When the PLR is larger than a first threshold, the power control system increases the transmission power of the wireless unit 12. When the PLR is smaller than a second threshold, transmission power is reduced.

**Wada, et al., JP'038** relates that inside these mutual connection devices 11, 12 and 13, a radio interface card, a wireless LAN card and a PSIN or ISDN interface card are positioned in the same layer and logic line control parts 1, 1201 and 1301 are positioned in the high-order layer. Further, an internet protocol layer and an application are positioned in the high-order layer. The logic line control parts 1, 1201 and 1301 of the respective mutual connection devices 11, 12 and 13 perform logical call control over the respective kinds of communication interface cards and the plural mutual connection devices and realize mutual connection. A mobile terminal equipment for receiving voice communication and data communication services comes and goes among the radio

areas of the respective mutual connection devices.

**Ikeda, et al., JP'477** relates that this communication system is provided with a quasi public adapter 13 between a PBX 111 and a PHS network 120. A virtual mobile communication terminal is installed in the adapter 130. Communication terminals 122 and 141 to 143 on the PHS network 120 side transmit to the virtual mobile communication terminal in the adapter 130 at a time when the terminals 122 and 141 to 143 are desired to perform communication connection to wire communication terminals 151 to 156 and 161 to 163 of the local area network 110. The adapter 130 converts the telephone number of the virtual mobile communication terminal into that of a wire communication terminal and sends it to the PBX 111, and also virtually performs position registration and authentication for the mobile communication terminal and transmits performance results to the network 120.

**Hano, JP'656** relates that an exchange 1 includes a registered information management part 1a, which registers the calling state of a cordless telephone set and an outgoing/incoming call management part 1b. When a voice terminal B calls a terminal A, the fact that the terminal B is a voice terminal is recorded on a data base E and also the fact that the terminal A is unable to answer the incoming call sent from the voice terminal is described on a data base F. Then the part 1b can reject its calling, before the incoming processing is carried out to the terminal A with the calling of the terminal B. Therefore, since the calling is rejected, without calling an opposite party when the communication mode is not agree with that of the opposite party, so that an opposite party who will not answer will not be called.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

No fee is incurred by this statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. E. Bushnell', is written over a horizontal line.

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# INFORMATION DISCLOSURE STATEMENT

PTO-1449 (PAGE 1 OF 1)

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APPLICANT SOO-HWAN KIM ,*et al.*

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GROUP 2617

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

## FOREIGN PATENT DOCUMENTS

## TRANSLATION

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	JP 2001-7764	01/2001	JAPAN			Abstract	
	JP 10-94038	04/1998	JAPAN			Abstract	
	JP 2001-285477	10/2001	JAPAN			Abstract	
	JP 11-275656	10/1999	JAPAN			Abstract	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Japanese Office Action corresponding to Japanese Patent Application No. 2003-319922, issued on 28 November 2006.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.